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WHAT IS CLAIMED IS

5 1. An induction motor, comprising:

two rotors coaxially arranged on a shaft, a first one of the rotors having a first winding and a second one of the rotors having a second winding, said first winding being coupled to the second winding with reverse electrical polarity;

10 two stators, each of the stators being coaxially arranged around a different one of the two rotors; and

wherein one of the stators is mounted for rotation relative to the other stator.

15 2. The induction motor of claim 1 wherein each of the stators comprises a polyphase structure.

3. The induction motor of claim 1 further comprising a capacitor coupled to the first winding.

20 4. An induction motor, comprising:

first and second rotors coaxially arranged on a shaft, each of the rotors having a winding;

25 a resistor coupled between the windings of the first and second rotors;

a capacitor connected in parallel to the resistor; and

30 first and second stators, the first stator being coaxially arranged around the first rotor and the second stator being coaxially arranged around the second rotor.

5. The induction motor of claim 4 wherein the resistor comprises a potentiometer.

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6. The induction motor of claim 4 further comprising a  
choke connected in parallel with the capacitor.

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7. The induction motor of claim 4 further comprising a  
worm screw coupled to the first stator to rotate the first stator  
with respect to the second stator.

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